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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/076,136	02/14/2002	Ring-Ling Chien	100/13010	8859	
21569	7590 01/25/2005		EXAM	EXAMINER	
CALIPER LIFE SCIENCES, INC. 605 FAIRCHILD DRIVE			ALEXANDER, LYLE		
MOUNTAIN VIEW, CA 94043-223			ART UNIT	PAPER NUMBER	
	,		1743		

DATE MAILED: 01/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		14
	Application No.	Applicant(s)
Office Action Summer.	10/076,136	CHIEN ET AL.
Office Action Summary	Examiner	Art Unit
7. 1111 110 0 177 111	Lyle A Alexander	1743
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ti y within the statutory minimum of thirty (30) da vill apply and will expire SIX (6) MONTHS fron , cause the application to become ABANDONI	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C.§ 133).
Status		
 Responsive to communication(s) filed on <u>05 N</u>. This action is FINAL. Since this application is in condition for allowar closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pr	
Disposition of Claims	,	
4) ⊠ Claim(s) 1-37 is/are pending in the application. 4a) Of the above claim(s) 22-31 and 37 is/are v 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-3,5-21 and 32-36 is/are rejected. 7) ⊠ Claim(s) 4 is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vithdrawn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). sjected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori	s have been received. s have been received in Applicat rity documents have been receiv I (PCT Rule 17.2(a)).	ion No ed in this National Stage
* See the attached detailed Office action for a list	oi uie ceruiiea copies not receivi	2 0.
Attachment(s)	».□	(770 440)
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 12/13/04. 	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	

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Claim Rejections - 35 USC § 102

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-3,5-6 and 32-36 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Wilding et al.(USP 5,928,880).

Wilding et al. teach a microfluidic system in figure 6a comprising a sample application port(56) and associated channels that has been read on the claimed "first channel segment". A detection region(117) that is orthogonal to the application port has been read on the claimed "detection channel". Column 11 lines 40+ teach the results are viewed through a transparent cover "visually or by machine". The taught transparent cover has been read on the claimed second substrate. The taught machine for viewing optical results has been read on the claimed "detection system".

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 7-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wilding et al.

See Wilding et al. Supra.

Wilding et al. are silent to the claimed detection channel having a cross section area about 0.1 and 5 times the cross sectional area of at least one of the first and

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second channels. Wilding et al. is also silent to the dimensions of the channels and volumes.

The court decided In re Boesch (205 USPQ 215) that optimization of a result effective variable is ordinarily within the skill of the art. A result effective variable is one that has predictable and well-known results. The relative dimension of channels and of a device area a result effective variable that have the well known and the expected results of altering fluid flow rates through the device.

The court decided <u>In re Yount</u> (80 USPQ 141) "... mere size ordinarily is not a matter of invention...". Additionally, the court also reiterated Yount in <u>In re Rose</u> (105 USPQ 237) again stating "... the size of the article under consideration is not ordinarily a matter of invention ...".

It would have been within the skill of the art to modify Wilding et al. and have the detection channel (117) between 0.1 and 5 times the cross sectional area of the first channel and the length of the detection channel from about 10 microns to 1mm, as optimization of a result effective variable and also in view of Yount and Rose above.

Allowable Subject Matter

Claim 4 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments filed 11/5/04 have been fully considered but they are not persuasive.

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Applicants' amendments and terminal disclaimers have overcome the 35 USC 112 rejections and Obviousness Type Double Patenting rejections.

Applicants' remarks were convincing in overcoming the rejection over Parce (USP 6,267,858).

Applicants' traverse the 35 USC 102(b) rejection over Wilding (USP 5,928,880) on the basis no detection channel is taught that is substantially orthogonal to the planar body of the microfluidic device. The Office does not agree and directs Applicants' to figure 6A that clearly shows detection region(117) orthogonal to the planes created by the vertical sides of the device(10) and fully meet the instant claims.

Applicants' traverse the 35 USC 103 rejection on the basis Wilding does not anticipate the claims under 35 USC 102(b) and therefore cannot sustain an obviousness rejection. The Office maintains both rejections are proper for the above reasons.

With respect to the 12/13/04 IDS, the Office believes all three of the cited references teach the claimed concept of multiple channels connected to each other and a detection chamber that is orthogonal to a plane. Upon further appeal these references may be applied as prior art. Presently, they are viewed as pertinent, but would be duplicative of the teachings of Wilding as applied to the instant claims.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lyle A Alexander whose telephone number is 571-272-1254. The examiner can normally be reached on Monday, Wednesday and Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill Warden can be reached on 571-272-1267. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lyle A Alexander Primary Examiner Art Unit 1743

